

Docker Firewall Configuration

Source: [Firewalld Strict Docker Filtering](#)

Preparation

Required parts:

Install firewalld and activate service:

```
pacman -Syu firewalld
systemctl enable --now firewalld.service
```

Disable any other firewall services.

Disable iptables for docker by adding or changing `/etc/docker/daemon.json` by adding the following config options:

```
{
  "iptables": false
}
```

After changing this config file, restart the Docker daemon to apply the previous change:

```
systemctl restart docker.service
```

As a result of the previous steps, only allowed ports on firewalld are accessible from the outside. However containers are now unable to connect outbound to the internet.

firewalld Configuration

Allow internet access for Docker containers

We need to allow masquerading to allow traffic from the Docker zone to the internet:

```
# Running this command allows your containers to reach out to the internet
firewall-cmd --permanent --zone=home --add-masquerade
# Since we used the --permanent flag, we need to reload the firewall for the changes to take
effect
firewall-cmd --reload
```

Docker creates a zone in firewalld specifically for its bridge network interfaces for each container network along with the docker0 interface.

To fix networking for containers that are not connected to a docker network, add your network interface connected to the network to the masqueraded zone.

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